Name _____

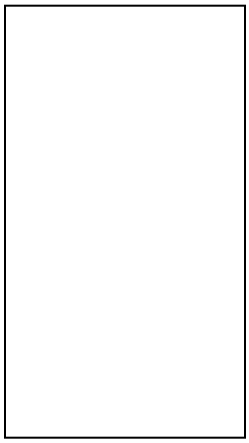
Analyzing, Comparing, and Identifying Inks
Lab 17
PAPER CHROMATOGRAPHY

PART A

1. What happened when I dipped the tip of the green marker in the water?

2. Based on these observations so far, what do you know about the ink?

3. Draw your results from the green marker on the "chromatography paper" below.



4. Describe in 1 or 2 sentences what you observed.

5. Now what can you conclude about the green ink?

PART B

6. Write the steps AND draw a labeled diagram describing the procedure you would use to compare the *composition* of a green, red, and brown marker.

7. Do dyes of the same color always travel at the same speed?

8. If dyes travel at the same speed, they must be the same _____.

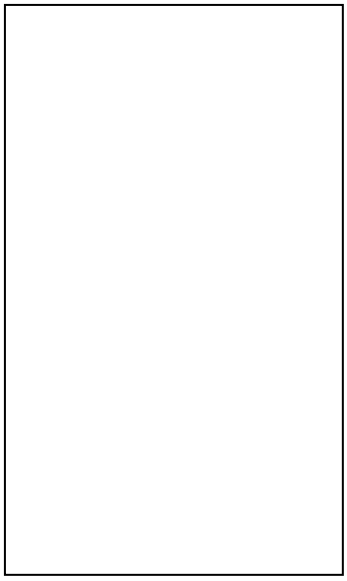
If dyes travel at different speeds, they must be different _____.

Thus, paper chromatography separates _____ and not _____.

PART C

9. Write a brief procedure describing how you are going to solve this crime.

10. Draw the results of your investigation as a chromatogram below. Be sure to label the colors you noticed from each sample!



11. Based on your results, who do you think wrote the check? EXPLAIN your answer!!!! BE SPECIFIC when explaining how you determined which ink samples matched.